

Examining Values, Use, and Role in Evaluation: Prospects for a Broadened View

*David A Boulay
Ohio State University*

*Heeyoung Han
University of Illinois at Urbana-Champaign*

This article reviews evaluation studies published in the HRD field. The authors further discuss general evaluation theories in terms of value, use, and evaluator role. The comparison of this literature suggests that evaluation in HRD has been limited by narrow perspectives. The authors attribute this narrow notion of evaluation to a lack of theoretical consideration of the roles, value, and use of evaluation. This analysis considers a broader view for evaluation in the field.

Keywords: Evaluation, Theory, HRD

It should be no surprise that there has been steady attention to evaluation of HRD interventions and their connection to organizational performance. A review of a decade of Human Resource Development Quarterly finds no less than thirteen articles devoted to evaluation. Understanding and quantifying impact is essential for the credibility of HRD interventions and an increasing necessity for organizations required to assess investment options for their continuous improvement. However, there is a paradox between how organizational leaders appear to value financial and performance data while in actuality interventions primarily are evaluated measuring participant reaction (Mattson, 2003; Pershing & Pershing, 2001). This issue is more perplexing when recognizing that organizations often have the resources to pursue more in-depth evaluation approaches if they so prioritize. Evaluation efforts overwhelmingly assess participant reactions and rarely identify bottom-line impacts or returns on investments.

Purpose of the Study

If quantifying the impact of interventions is increasingly important, yet evaluation overwhelmingly focuses on reaction assessments, then understanding theoretical underpinnings that inform evaluation is necessary to understand this gap in decision-making preferences and evaluation practices. Therefore the purpose of this paper is to review the status of HRD evaluation literature and to introduce perspectives of broad evaluation theories to inform our field. We seek to understand the following research questions:

What is the current status of evaluation literature in the HRD field? How do evaluation theories inform the field for further directions in evaluation research?

In order to address these questions, this paper reviews the evaluation articles in Human Resource Development Quarterly from 1996 to 2005. Then the paper examines broad evaluation theory through their value, use, and roles of evaluators. The paper concludes by identifying gaps based on this comparison and suggests how evaluation theory may inform future directions of evaluation in human resource development.

Review of the Literature

The evaluation literature in HRDQ can be situated in two primary categories. One category has focused on critiques of Kirkpatrick's model and offered proposed enhancements or adaptations of the well-recognized four-level model. The second category has emerged in recent years and examines the relationship between current evaluation models and organizational decision-making processes.

The evaluation literature in the HRD field is deeply rooted in Kirkpatrick's four-level model of training evaluation. Kirkpatrick's work has been generally accepted as the standard in the field (Holton, 1996). However, Holton argued Kirkpatrick's four-level model of evaluation is flawed and is better described as a taxonomy. He discussed weak relationships among the levels and how the model fails to account for the complex system of influences on training outcomes that exists in organizations. Holton (1996) proposed a significantly different model by removing reaction measures, focusing on individual performance instead of behavior, and including intervening

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variables. This model includes links among learning, individual performance, and organizational performance with intervening variables such as ability, environmental, and motivation elements as well as secondary influences such as personality and attitudes. Holton acknowledged his proposed model is complex and requires a significant investment to collect all the data. However, he suggested a key to improve evaluation is to stop asking “happiness” questions and focus on self-reported estimates on the impact to individual and organization performance.

Wang, Dou, and Li (2002) introduced a model for measuring return on investment in a systems approach. They defined return on investment in HRD as “any economic return, monetary or non-monetary that accrue through HRD investments (p. 212).” They noted a primary reason that returns on investment measurement of HRD interventions is still in its infancy is due to dynamic human behaviors not found in fixed assets. From this definition they introduced a systems approach for measuring HRD interventions. They developed a model that identifies HRD as an organizational subsystem impacting business outcomes and introduced in-depth mathematical calculations to determine the “fair share” of HRD intervention impacts on firm performance. While this model provides a new way of examining the returns of HRD investments it is tremendously complex to implement.

Kaufman and Watkins (1996) noted the complexity of return on investment analysis is often more detailed than an organization desires or is able to measure. Using the Organization Elements Model (OEM) as their foundation, the authors established the costs-consequence analysis as a “coarse-grained estimate” of what one puts into a system and what one gets out of the system. Kaufman and Watkins provided an in-depth discussion of the elements and ways to measure costs and consequences for each element. For example, auditing and accounting can measure inputs, cost effectiveness can measure products, and cost-utility can measure outcomes of the OEM. This proposed costs-consequence analysis provides an alternative to return on investment.

While return on investments and related financial measures of training impact have been an area of research emphasis, Pershing and Pershing (2001) reminded us that the most common evaluation approach remains reaction measures or level one of Kirkpatrick’s model. Based on the high frequency of reaction evaluation usage relative to usage of other levels of evaluation, they investigated design and implementation elements of this level. Through their analysis, the authors concluded that if the most prevalent level of evaluation is to become more useful for evaluators, instructors, and learners then design and content need to adhere to uniform and consistent standards.

While the previously discussed research critiqued established models and proposed new models for HRD evaluation, a second set of literature in HRDQ has emerged in recent years. This literature establishes a trend that moves away from criticisms of current evaluation models and towards understanding the relationship of evaluation and organizational decision-making processes.

Bober and Bartlett (2004) noted that evaluators need to focus on the utilization of results and not just the methods and processes for collecting data. They explored how various organization members use evaluation data and for what intended purposes. The authors identified that evaluation data can be used for numerous purposes expressed as a continuum from direct and short-term uses to conceptual uses oriented towards future policy-based decisions. This continuum represents actions that can be derived from evaluation such as improvement of training, accountability, and program justification and continuation. They identified three primary users of evaluation results; evaluation staff, instructional designers, and upper level management. They further identified factors influencing the usage of evaluation data that include communication quality, timeliness, quality, credibility, and commitment to evaluation. This study emphasized knowing stakeholder needs and their planned use of evaluation data.

Mattson (2003) examined the effects that alternative evaluation reports have on managerial support for HRD interventions. The author utilized three report methods (utility analysis, COT report, and anecdotal evaluation) to ascertain whether the type of evaluation report accounted for significant differences in perceived usefulness. Mattson identified that evaluation usefulness is linked with credibility of the information source mediated by expertise and trustworthiness. Mattson concluded that managers prefer financial results information over anecdotal information. In fact, anecdotal reporting was identified as the least useful for management. Furthermore, he noted that management responded more favorably to business results evaluation as opposed to reaction evaluations.

Holton and Naquin (2005) noted that all evaluation models have decision-making as their core output. The primary purpose of evaluation in organizations is to contribute to better decision-making. They argued that evaluation models are not good decision-making models. The authors explored the literature of decision-making theories and the role of bounded rationality. They concluded that while evaluation models can be categorized as rational-economic decision-making, researchers have long recognized that people do not follow rational-economic patterns in their decision-making. They identified a gap for the field to further explore in order to discover new evaluation models that follow more naturalistic decision-making behaviors, which identify economic factors as only one of several factors to evaluate HRD interventions.

As the field has transitioned from critiques and adaptations of Kirkpatrick's model to connecting evaluation with organizational decision-making, two important issues for research emerge. First, there remains a missing linkage among the four levels of Kirkpatrick's model. This is evident by the extensive use of reaction evaluation and minimal use other levels of evaluation. Second, while practitioners are interested in financial data to evaluate the impact of human resource development investments, economic factors may represent only a subset of several factors to consider. Cascio (2003) pointed out that proper framing of the message is essential and necessary to articulate the links between HRD interventions and organizational success. Holton and Naquin (2005) suggested evaluation models in HRD do not assist decision-making because of the failure to follow more naturalistic decision-making approaches that may offer a proper framing of these messages. Finally, Torres (2004) emphasized that as the field moves forward in evaluation research it is essential to understand the role of context in evaluation.

To further address the issues that emerge in the review of HRDQ literature, it is necessary to examine broad evaluation theories. This review of theoretical approaches to evaluation outside the field of HRD can provide insight into new research directions and guide a maximum understanding of evaluation (Torraco, 1997).

Informing through Evaluation Theories

While the practice of evaluation has been a priority of many fields including HRD, evaluation theory has been less focused and even neglected in the implementation of the evaluation practice (Shadish, Cook, & Leviton, 1991). However, comprehension of theory should precede application of evaluation practice, because theory can guide the integrity and wholeness of applied efforts such as evaluation (Swanson & Holton, 2001). In other words, "evaluation theory tell us when, where, and why some methods should be applied and others not (Shadish, et. al., 1991, p. 34)." Since evaluation theories have varied, it is necessary to understand the various perspectives in order to grasp a full appreciation of the theory that informs this area of inquiry.

To inform the current status of HRD evaluation research, the authors discuss various evaluation theorists' perspectives based on three components, value, use, and role, which ground evaluation theories (Alkin & Christie, 2004; Shadish, et. al., 1991).

Value

The ontological and epistemological assumptions and values in evaluations provide fundamental logic for guiding the use, the method, as well as the role of evaluators. Objective-oriented evaluation, which emphasizes specification of objectives and measurement of outcomes, is strongly rooted in behaviorism of the early twentieth century. Tyler (1942) believed that evaluation objectives are measurable and that there are objective standards and norms to be achieved for making judgments. In his notion, evaluators' and stakeholders' values can be thoroughly controlled. However, other scholars recognized that values influenced evaluation and provided multiple perspectives (Campbell, 1984; Shadish & Luellen, 2004; Cook, 2004). While Campbell (1984) thought that stakeholders' and evaluators' value could be minimized, Cook (2004) viewed stakeholders' values as essential input in deciding evaluation objectives and considered this variation of values in the evaluation context.

The notion of value-free evaluation was fully challenged by the next generation of theorists (Boruch, 2004; Rossi, 2004; Chen, 2005; Cronbach, 1980; Scriven, 1993; Stake, 2003; Stufflebeam, 2003; Preskill, 1998). These scholars generally maintained that multiple realities and various perspectives should be considered in evaluation practices. However, their thoughts differed from each other in terms of how they perceive stakeholders' perspectives and whose values are ultimately considered in their evaluation practices.

One group of evaluation scholars advocated a *theory-driven evaluation*. This approach emphasized acknowledging stakeholders' prescriptive and descriptive assumptions when building a program theory (Boruch, 2004; Rossi, 2004; Chen, 2005). This view is not interested in building a grand and general theory rather a local level of plausible and defensible theory that could be used in evaluating programs based on the local context.

Other scholars agreed with the theory-driven evaluation value in that stakeholders' perspectives are important to consider in the evaluation process (Stake, 2003, 2004; Stufflebeam, 2003, 2004; Cousins, 2003, 2004). However, while theory-oriented scholars value stakeholders' perspectives for building program logic, Stake (2003, 2004) viewed stakeholders' perspectives and values as epistemological sources of evaluation for evaluators' understanding. That is, Stake ultimately championed evaluators' expertise rather than stakeholders' program logic in decision making. This value differed from Stufflebeam (2003, 2004) who advocated *decision-oriented evaluation*. Stufflebeam thought stakeholders should be guided by information for their judgments and decision making.

Cousins (2003, 2004) advocated a pragmatic *utilization focused evaluation*, and Preskill (1998, 2004) advocated *participatory evaluation* in terms of empowerment. Stufflebeam leaned towards evaluator provided information for decision making, while Cousins and Preskill preferred to value program practitioners' intimate knowledge and

perspectives about the program and its context. Preskill placed additional value on stakeholders' empowerment through organizational learning than evaluator-directed approaches.

Other theorists questioned whose value should ultimately be considered in the evaluation process. For example, Cronbach (1980) advocated a *policy-oriented evaluation* and described that the benefit of the larger community could be reconciled with commitments to a sponsor. Similarly, Weiss (2004) advocated policy-oriented evaluation, but emphasized program recipients who tend to be the most deprived groups relative to the evaluation sponsors. Scriven's (2004) *consumer-oriented evaluation* corresponded with Weiss by valuing the recipients of the program services which became the base of a goal free evaluation.

Use

Two main theoretical approaches of evaluation literature can be identified in understanding the use of evaluation. One paradigm, the instrumental view, prioritizes the importance of the process and unbiased results. The second paradigm is concerned with the usefulness of the data. These two approaches coincide with the literature review of HRDQ articles that emphasized the process and results as well as examined the exploration of the relationship between evaluation and organizational decision-making.

The instrumental view of evaluation seeks to identify program effectiveness and improvement (Tyler, 1942; Campbell, 1981; Scriven, 1993). Even though Campbell (1981) identified evaluation as the experimenting society for policy-makers, his focus has been on providing unbiased evaluation results rather than ensuring the use of evaluation results. This view of evaluation does not prioritize facilitating and ensuring the use of evaluation. In other words, the primary concern of this evaluation approach is not ensuring evaluation results are being used, rather getting the process of evaluation right (Rossi, 2004). This view does generally consider stakeholders' involvement in evaluation as an approach to increase the likelihood of the use of evaluation results.

The second view of evaluation use is concerned with how the evaluation results could be used. Stufflebeam (2003) argued that evaluation should be used from the start to the end of a program. Stufflebeam's (2003) CIPP model provided guidance for formative and summative evaluation and ensuring a timely utilization of evaluation information. Cronbach (1980) stressed that evaluation contributes to policy-shaping and that the use of evaluation is subject to the function of the political system. This provides a holistic perspective in understanding the use of evaluation by recognizing the political system and context. Cronbach (1980) further stressed that communication with the policy-shaping community could facilitate the use of evaluation results. While Stufflebeam's view of use involved a timely, specific, and local level of use, Cronbach's view provided a broader notion of evaluation use.

Stake (2003) agreed with Cronbach's view that evaluators do not have control over the use of evaluation. Stake thought that evaluation is not for the evaluators' instrumental use, but for the fairly conceptual and symbolic use for stakeholders' future use since stakeholders determine the quality of program.

Cousins (2003) introduced a more active and comprehensive view of evaluation use by focusing on the process of evaluation. Cousins stressed responsiveness to stakeholders' needs. This explicit recognition of responsiveness differed from Stake's (2003, 2004) responsive evaluation. Stake's approach is epistemological-oriented and responsive to activity and program. On the contrary, Cousins (2003, 2004) view is pragmatic utilization-oriented through perceived evaluation as a responsive approach to the stakeholders' needs. While Stake does not allow stakeholders' participation in evaluation, Cousins argued that stakeholders should learn and develop their evaluation research skills through participation in the evaluation process for self-critique and self-determination, through which their evaluation will be actively used.

Similar to Cousins, Preskill's (1998) empowerment and participatory evaluation is also strongly oriented to the process use. Both scholars stressed stakeholders' individual and organizational learning for their self-development. Moreover, Cousins and Preskill have the same rationale stakeholder participation and empowerment though organizational learning can be justified by the enhanced use of evaluation. However, Preskill's emphasis of stakeholders' learning in evaluation is fairly different from Cronbach's educative evaluation in that while Cronbach's educative thoughts are toward identifying issues related to policy making, Preskill's participatory evaluation is ultimately intended for stakeholders' empowerment.

Role

Perspectives of the evaluator's role has expanded from narrow notions of program outcome reporting to views of more engaged and directive roles even to the level of promoting change through evaluation. In the early traditions of evaluation, evaluator roles were identified simply as scientists and measurement developers. An evaluator represented a co-developer of program objectives with expertise in scientific testing and measurement (Tyler, 1942). Furthermore, an evaluator's role was to strictly provide information and advice in a decision making process (Campbell, 1981, 1984).

Cronbach (1980) broadened this narrow definition of the evaluator's role to describe evaluators as educators who illuminate and stimulate decision-making by providing constructive feedback to clients in order to facilitate

enlightenment. While this perspective did not suggest that evaluators make decisions, they did perceive that evaluators are to influence decision and policy making processes through timely information (Cronbach, 1980; Stufflebeam, 2003, 2004). Stake (2003, 2004) also recognized the long-term educative role of an evaluator. However, he described an evaluator's role in even more engaged terms as an expert who identifies, negotiates, and ultimately selects a few issues among all voices to interpret the quality of a program. This, in turn, would enhance stakeholders' learning and application of evaluation to other situations in the future. In other words, Stake viewed an evaluator as an ethnographer whose role is to hear the participants' voices and concerns.

In general, these identified roles of evaluators coincide with the scholar's views of the extent to which stakeholders should participate in the evaluation process. Early traditions of evaluation did not consider stakeholders participation necessary and viewed evaluators as those who are supposed to discover and know everything (Madaus, 2004). Other perspectives emphasized collaboration through stakeholders' participation, to the point of identifying stakeholders' assumptions and mining their knowledge from the evaluators' perspective. And other scholars viewed stakeholders as experts who provide program logic and context so that they can make informed judgments. From this view, the meaningful participation of stakeholders is compulsory. Therefore, the evaluator's role is to enhance stakeholders' meaningful participation. Hence, team building, facilitation, negotiation, conflict resolution, and interpersonal skills are requisite skills of an evaluator.

These various perspectives of the value, use, and role of evaluation provide a broad insight into the processes and intended outcomes of evaluation. This review brings to light the assumptions that underlie the implementation of evaluations. Understanding these insights in the context of HRD evaluation traditions and the resultant gaps in our field's knowledge, provide some directions for future HRD research and practice.

Implications for Evaluation Practices in Human Resource Development

This paper identified two distinct approaches of evaluation in HRDQ. In the late 1990's, the field both embraced and challenged Kirkpatrick's model as well as introduced alternative approaches to evaluate HRD interventions. Secondly, articles have examined the relationships of HRD evaluations and management decision making. The research in recent years has focused on the role and interaction of evaluation outputs with organizational decision-making.

The importance of understanding the impact of HRD interventions on organizational performance is unquestioned in the literature. The four-level model is an important framework, if for nothing else, to help understand the role of evaluation and ways to think about measurement of HRD interventions. Numerous models have been introduced that may better reflect reality but are tremendously complex and not easily operationalized.

It is evident that HRD evaluations should be aligned with organizational performance and effectiveness. Evaluation of an HRD activity is necessary to understand the impact on the organization. The intervention is identified as a solution to an identified gap. The evaluation helps determine the effectiveness of the intervention. Interestingly, no research has explicitly explored the reasons and rationale why organizations rely primarily on reaction data and do not invest in evaluations that provide financial impacts and returns. Furthermore, the literature is weak in its attempt to enhance our understanding of measuring HRD interventions that is useful for organizational decision-making (Holton & Naquin, 2005; Mattson, 2003). Indeed, the consensus of the evaluation literature in HRD can be best described as an area of inquiry that is still full of opportunity to gain useful knowledge for the practices of measuring the impacts of HRD interventions.

Through the synthesis of evaluation paradigms in terms of value, use, and evaluator role, it can be suggested that evaluation practices in the HRD field have been narrowly rooted in objective-oriented evaluation paradigm. Evaluation research has generally focused on the process and unbiased results of measurement specialist in evaluations. Holton and Naquin (2005) described this as a rational economic approach. Evaluators define objectives and see if the objectives are achieved often by measuring learning outputs. They are interested in identifying variables affecting learning effectiveness per se. Therefore, organizational financial impacts and returns do not become an evaluator's direct interest. Hence, this narrow notion of evaluation has limited evaluation practices only to measuring narrow notions of learning outputs, especially focused on learning reaction data.

For example, in her analysis of management development literature, Collins (2002) wrote that evaluation research rarely focused on organizational performance but on the measurement of individual learning outcomes. She further stressed that evaluation practices in HRD should go beyond the reaction paradigm to measure broader notions of organization level effectiveness. Additionally, Alvarez, Salas, and Garafano (2004), argued that training evaluation is narrowly focused on measuring learning outcomes. They viewed training evaluation as "a measurement technique that examines the extent to which training programs meet the goals intended (p. 387)." Through their integrated model of training evaluation and effectiveness, they further described evaluation in terms

of a whole, thus creating a more macro or holistic view of training outcomes in measuring training effectiveness through evaluation.

From these insights, the importance of evaluation is being able to improve organizational decision making through broader notions of performance and multiple perspectives. However, it is not easy to liberate from narrow rational economic perspectives. Even though both Collins (2002) and Alvarez et al. (2004) stressed broader notions of organizational effectiveness in evaluation practice, they maintained a relatively narrow view of evaluation given the wide continuum of theoretical perspectives of evaluation value, use, and role. In complex organizational systems, it is not appropriate to have only narrow and objective evaluation perspectives. Moreover, in order to achieve an alignment of evaluation with organization-wide priorities, broader and multiple perspectives are needed in evaluations.

Providing an evaluation approach that informs organizational decision making more holistically requires evaluators to extend their perspectives and assumptions of evaluation from narrowly defined objective-oriented views to broader and multi-faceted perspectives. In order to extend and broaden evaluations to multiple paradigms, evaluators should consider several questions underlying their assumptions of evaluations (Table 1). These questions account for context and address evaluation in terms of value, use, and evaluator role. Identifying paradigmatic responses can lead to a broader understanding of an evaluator's standpoint by exposing hidden assumptions towards evaluation. For example, a natural assumption is that the employer or managers are the customers of evaluation. Yet, customers may differ in each evaluation context and in each phase of an evaluation process when considering how organizational improvement and betterment is achieved in complex organizations.

Table 1: *Questions for Evaluation Practice*

Criteria	Questions
Context	<ul style="list-style-type: none"> • What is evaluated? • What is the rationality of evaluation? • Who are the stakeholders/customers? • What is the evaluator's value?
Value	<ul style="list-style-type: none"> • Whose values and perspectives should be considered? • Why should their or your values and perspectives be considered?
Use	<ul style="list-style-type: none"> • How will evaluation results to be used? • When will the results be used?
Role	<ul style="list-style-type: none"> • What is the role of evaluators and stakeholders? • How do you define the relationship between an evaluator and stakeholders?

(Source: adapted from Alkin & Christie, 2004; Shadish, Cook, & Leviton, 1991)

Wang (2003) argued that a one-way customer service model has dominated evaluation practice in the HRD field and that a two-way customer service model should be considered. In one-way customer service models, managers and employers become a customer and HRD practitioners implement their requests and evaluate their interventions against the customer's standards (cost-effectiveness). However, Wang (2003) pointed out that this evaluation practice drives HRD practice to "be eroded as a tool for organizational politics (p. 458)." Moreover, it is the customers who would become "the ultimate victims of the one-way customer service model (p. 455)." That is, simply performing ROI evaluation on the intervention that the customer requested cannot be aligned with a more holistic evaluation process to make organization improvement and betterment. In a two-way customer service relationship, interests in various areas of important organizational performance measures such as return on investment, integrity, and competence become critical measures.

Given that HRD evaluation should be aligned with organizational goals, evaluators can play a more active and engaged role in the process of evaluation. Evaluation is a value-laden process that can be used to improve society and programs. This brings to question whose value and perspective is more important. Evaluators can play a role of educator, information provider, and policy maker depending on their assumptions. In complex organizational settings, stakeholders include multiple perspectives such as evaluator, employee or learner, customers, and business owner/manager. Additionally, Torres (2004) emphasized the importance of context, which is intertwined with values and roles within the evaluation process. Therefore, multiple perspectives can drive evaluation practices in the HRD field become more meaningful and provide broader insights into the local situation.

Theories differ according to their assumptions on value, use, and role of evaluation. However, differing perspectives should not be understood as exclusive of each other, rather as complementary, since all theories address elements of the evaluation practice just like a mosaic. Hence, a full understanding of their differences and similarities is useful and important to draw the whole picture of evaluation.

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